

## THE UNITED STRATES OF AMIRRIGA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Hioneer Hi-Bred International, Inc.

HIPPORS, THERE HAS BEEN PRESENTED TO THE

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BATES. SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN DUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY SECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'PH6JM'

In Testimonn Thereof, I have hereunto set my hand and caused the seal of the Hant Baristy Trotection Office to be affixed at the City of Washington, D.C. this twelfth day of September, in the year two thousand three.

Allert

Bemjike

Commissioner Plant Variety Protection Office Agricultural Marketing Service riculture

APPENDIX 1

	REPRODUCE LOCALLY. Include form number and date on all reproduction U.S. DEPARTMENT OF AGRICULTURE AGRICULTURE AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and Information collection burden statement on reverse)			Ins. FORM APPROVED - OMB NO. 0581-0055  The following statements are made in accordance with the Privacy Act of 1974  (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.  Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidentic until certificate is Issued (7 U.S.C. 2426).			
•	NAMEOFOWNER Pioneer Hi-Bred Internati	onal,	Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER		J. VARIETY NAME	
	ADDRESS (Street and No. or RFD No., City, State and Zin Code	, and Country)		S. TELEPHONE (Include area code)		РН6ЈМ	
1	7301 NW 62 <sup>nd</sup> Avenue					FOR OFFICIAL USE ONLY	
Ç.	P.O. Box 85			515/270-4051	ľ		
(:  -	Johnston, IA 50131-0085			6. FAX (include area code)	2	00100282	
1 -7	IF THE OWNER NAMED IS NOT A "PERSON". GIVE			515/253-2125		FILING DATE	
) }-	FORM OF ORGANIZATION (corporation, partnership, association, etc.)	8. IF INCO	RPORATED, GIVE OF INCORPORATION)	9. DATE OF INCORPORATION	'	ILING DATE	
ř.	Corporation			March 5, 1999		5/221	
; 10					- 1	8/22/2001	
· contract	Steven R. Anderson Research and Product De P.O. Box 85 Johnston, IA 50131-0085	velopme	∍nt		FEES	s 2,705  DATE \$/22/3001  CERTIFICATION FEE:	
	TELEPHONE (include area code) 12. FAX (include area				Ė	1 21.00/03	
			13. E_MAIL			P KIND NAME (Common name)	
1.55	515/270-4051 515/253-	2125	Steven. A	Anderson@Pioneer.com	l cc	)RN	
:rt 7 15	GENUS AND SPECIES NAME OF CROP		16. FAMILY NAME		"	ANT	
4.	Zea Mays		Gramine				
· -	CHECK ARRECORDIATE CONTRA			.40	1 _		
,	CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITT	ED (Follow Inst	ructions on reverse)	19. DOES THE OWNER SPECIFY THAT :		Yes No	
	Exhibit A. Origin and Breeding History of the Variety     Exhibit B. Statement of Distinctness			CERTIFIED SEED? See Section 83(a	) of the Plant	Variety Protection Act)	
	c. Exhibit C. Objective Description of the Variety			YES (if "yes", answer item and 21 below)	s 20 🔀	NO (if "no", go to item 22)	
1.	d. Exhibit D. Additional Description of the Variety (Option			20. DOES THE OWNER SPECIFY THAT S		1	
÷ę	e. Exhibit E. Statement of the Basis of the Owner's Owne	ershio		NUMBER OF GENERATIONS?	EED OF THIS	VARIETY BE LIMITED AS TO	
4	<ol> <li>Voucher Sample (2500 viable untreated seeds or, for new verification that tissue culture will be deposited and meaning.)</li> </ol>	uber propagated	i varielies	☐ YES ☐ NO			
27				21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?			
2	<ol> <li>Filling and Examination Fee (\$2,450), made payable to Plant Variety Protection Office))</li> </ol>	Treasurer of th	e United States" (Mail to	FOUNDATION REGIS	_	CERTIFIED	
1 22	HAS THE VARIETY PACLUDING ANY HARVESTED AND THE			<b>!</b>			
. ]	TOTAL STEEL STEEL STEEL STEEL OR USE	D IN THE U.S. O	R OTHER COUNTRIES?	23. IS THE VARIETY OR ANY COMPONE INTELLECTUAL PROPERTY RIGHT (P	NT OF THE VA	RIETY PROTECTED BY	
1	☐ YES ☑ NO			☐ YES ☑ NO		ENGINEERING	
	IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSE EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space	SITION, TRANSF	ER, OR USE FOR	IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED			
	, , , , , , , , , , , , , , , , , , , ,		aversey	REFERENCE NUMBER. (Please use s	Pace indicate	OR ISSUANCE AND ASSIGNED of on reverse.)	
				1			
澤							
<i>2</i>							
** 5 *: 42							
_	_						
24	The owner(s) declare that a viable sample of basic seed of the var- for a tuber propagated variety a tissue culture will be deposited in	iety will be furn	shed with application as	nd will be regienished upon secure to			
Section 1	The understand appears before the				with such re	guiations as may be applicable, or	
E	The undersigned owner(s) is(are) the owner of this sexually reprovised Section 42, and is entitled to protection under the provisions of Section 42.	duced or tuber p action 42 of the	propagated plant variety, Plant Variety Protection	and believe(s) that the variety is new, distinct, un	liform, and sta	ible as required in	
27	Owner(s) Is(are) informed that false representation herein can jeop ATURE OF OWNER						
E	WINE OF OWNER	31.0		SIGNATURE OF OWNER			
松	No.			St. N. M. Mar	200		
	/AL		- 1				
	(Please print or type)		<del></del>	IAME (Please print or type)	2/		
23			ļ-		2./		
700	(Please print or type)	DATE	!	Steven R. Anderson		DATE	
23		ļ:		Steven R. Anderson	1	8-2-01	

**INSTRUCTIONS** 

200100282

GENERAL: To be effectively filed with the Plant Variety protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner, (2) completed Exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense variety at least 2,300 titueated seeds of each line necessary to reproduce of the variety of ror tuber reproduced varieties ventication that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in a approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$30 filling fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

> Plant Variety Protection Office Telephone: (301)504-5518 FAX: (301)504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
  - the details of subsequent stages of selection and multiplication;
  - evidence of uniformity and stability; and
  - the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties: 18b.
  - (1) identify these varieties and state all differences objectively;
  - attach statistical data for characters expressed numerically and demonstrate that these are clear differences, and
  - submit, if helpful, seed and plant specimens of photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as 18c. possible to describe your variety.
- Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use 18d. comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant disease
- Section 52(5) of the Act required applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. 19. However, if "No" has been specified, applicant may change the choice. (See Regulations and Rules of Practice, Section 7.103).
- See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).

NOTES; It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate of any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, ORRM, AG Box 7830, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0551-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a decision of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marrial or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require atternative means for communication of program information (craffe, large print, audiotaps, etc.) should contact the USDA Office of Communications at (202) 720-737. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment coportunity employer.

S&T-470 (06-98DESIGNED BY THE Plant Variety Protection Office with WordPerfect 6.03. Replaces STD-470 (03-08) which is obsolete. (See reverse for instructions and info

### Exhibit A. Origin and Breeding History

Pedigree: PHHB9/PH09B)X54116X

200 100763

Pioneer Line PH6JM, Zea mays L., a dent corn inbred, was developed by Pioneer Hi-Bred International, Inc. from the single cross hybrid PHHB9 (Certificate No. 9300108) X PH09B (PVP Certificate No. 9700218) using the pedigree method of plant breeding. Varieties PHHB9 and PH09B are proprietary inbred lines of Pioneer Hi-Bred International, Inc. Selfing was practiced from the above hybrid for 7 generations using pedigree selection. During line development, crosses were made to inbred testers for the purpose of estimating the line's combining ability. Yield trials were grown at Miami, Missouri as well as other Pioneer research locations. After initial testing, additional hybrid combinations have been evaluated and subsequent generations of the line have been grown and hand-pollinated with observations again made for uniformity.

Variety PH6JM has shown uniformity and stability for all traits as described in Exhibit C - "Objective Description of Variety". It has been self-pollinated and ear-rowed 5 generations with careful attention paid to selection criteria and uniformity of plant type to assure genetic homozygousity and phenotypic stability. The line has been increased both by hand and in isolated fields with continued observations for uniformity and stability, and for 3 generations during the final stages of inbred development and seed multiplication. Very high standards for genetic purity have been established morphologically using field observations and electrophoretically using sound lab molecular marker methodology.

No variant traits have been observed or are expected in PH6JM.

The criteria used in the selection of PH6JM were yield, both per se and in hybrid combinations; late season plant health, grain quality, stalk lodging resistance, and kernel size, especially important in production. Other selection criteria include: ability to germinate in adverse conditions; number of tillers, especially important in production because having numerous tillers increases hybrid production costs spent on detasseling; disease and insect resistance; pollen yield and tassel size.

Season/Year Pedigree Grown	Inbreeding Level of Pedigree Grown
Winter 1994:	
РННВ9, РН09В	F0
Winter 1994:	
РННВ9/РН09В	F1
Summer 1995:	
PHHB9/PH09B)X	F2
Summer 1996:	
PHHB9/PH09B)X5	F3
Winter 1996:	
PHHB9/PH09B)X54	F4
Summer 1997:	
PHHB9/PH09B)X541	F5
Winter 1997:	
PHHB9/PH09B)X5411	F6
Summer 1998:	
PHHB9/PH09B)X54116	F7
Seed	
PHHB9/PH09B)X54116X	F8

<sup>\*</sup>PH6JM was selfed and ear-rowed from F3 through F7 generation.

#Uniformity and stability were established from F6 through F8 generation and beyond when seed supplies were increased.

### **Exhibit B. Novelty Statement**

Variety PH6JM mostly resembles Pioneer Hi-Bred International, Inc. proprietary inbred line PHHB9 (PVP Certificate No. 9300108). The data in Tabel 1A and 1B are from t-tests collected from two environments in Johnston, IA and one environment in Ankeny, IA. Husk tightness scores were collected primarily in Johnston, Ankeny, and Dallas Center, IA.

Variety PH6JM has more leaves per plant (15.5 vs 13.0) than PHHB9 (Table 1A, 1B).

Variety PH6JM has a lower husk tightness score (3.9 vs 5.8) compared to PHHB9 (Tables 2A and 2B).

## Exhibit B Novelty Statement Tables

Table 1A. Data from the Johnston, IA. area (AD and JH) and Ankeny, IA. (IT) in 2000 are supporting evidence for differences between PH6JM and PHHB9. A t-test was performed and broken out by environment.

Prob_(2- tail)_Pooled	0.000	0.000	0.020
t- Value Pooled	8.7	10.6	2.9
DF_Po oled	8	8	80
Mean- Mean   SkiDevi   SkiDevi   Skiderror- DE Polt-   2   Diff   atton-1   atton-2   1   2   oled   Value   Poled   Poled	0.245	0.245	0.583
StdError-	0.245	0.000	0.374
StdDevI ation-2	0.548	2.6 0.000 0.548	2.0 0.837 1.304
StdDevi	0.548	0.000	0.837
Mean	3.0	2.6	2.0
Mean-	13.4	15.0 12.4	13.2
É .	6.4		15.2
Count-2	2	5	5
7-2 Count-1 Count-2 Me	S	Ω.	2
	PH6JM PHHB9	рнелм рннв9	рнелм Ринве
variety 1	PH6JM	<b>РН6JМ</b>	РН6ЈМ
station	ΑD	Щ	丐
year	2000	2000	2000
TRAIT	leaf number (# of leaves/plant)	leaf number (# of leaves/plant)	leaf number (# of leaves/plant)

Table 1B. Summary data across environments in 2000 are supporting evidence for differences between PH6JM and PHHB9. A t-test was performed across environments in 2000.

Prob_(2- tall)_Pooled	0.000
/alue_ Pooled	7.9
DF Po oled	82
StdError-2	0.239
StdEmor-1	0.215
StdDeviatio	0.926
StdDeviatio	0.834
Mean_DI	2.5
Mean-2	13.0
Mean-	15.5
Count-2	15
Count-1	15
-1 variety-2	PHHB9
variety-1	PH6JM
year	2000
TRAIT	leaf number (# of leaves/plant)

ERR COST

# Exhibit B: Novelty Statement Tables

between PH6JM and PHHB9. Each year varieties were grown in 3 locations that had different environmental conditions. Environments had different Table 2A: Data from Johnston, Ankeny, and Dallas Center, IA broken out by year and across environments are supporting evidence for differences planting dates and were in different fields. A two-sample t-test was used to compare differences between means.

ob_(2- _Pooled	0.013	0.025	0.016
Pooled tall)	4.2	3.5	4.0
SidDeviatiStdDeviatiStdError-StdError-DF_Pool t- Prob_(2-		4	4
itdEmor-DF	3 3.7 5.7 2.0 0.577 0.577 0.333 0.333 4	3 4.0 6.3 2.3 1.000 0.577 0.577 0.333	3 4.0 5.3 1.3 0.000 0.577 0.000 0.333
dError- S	0.333	0.577	0.000
IDeviati St	0.577	0.577	0.577
nt-Count-Mean-Mean-Mean_StdDevlatt StdDevlatt StdError-Std	0.577	1.000	0.000
hean St	2.0	23	<u>.</u>
1.	5.7	<u>က</u> က	5.3
ean-M	3.7	4.0	0.4
ount-M	က	<b>m</b>	ີຕ
Count-C	<b>m</b>	m	
-VARIETY-	<b>РННВ</b> 9	ьннв9	РННВ9
VARIETY EAR 2	2000РН6ЈМ	2001PH6JM	2002PH6JM
TRAIT Y	(scored tto 9; 1=loose, 9=tight) 2000PH6JM PHHB9 Hinsk tightness	(scored 1 to 9; 1=loose, 9=tight) Hinsk flohtness	(scored 1 to 9; 1=loose, 9=tight)

Exhibit B. Novelty Statement Tables
Table 2B: Sumnary data from Johnston, Ankeny, and Dallas Center, IA across years and environments are supporting evidence for differences between PH6JM and PHHB9. Environments had different planting dates and were in different fields. A two-sample t-test was used to compare differences between means.

rob_(2-	0.000
t- e_Pooled tall	6.3
Pooled/Valu	<b>6</b>
tdError- 1 DF	0.222
IdEmor-S	0.200
viation-Si	0.667
Seviation-StdDe	0.801
an Diff	<b>6</b> .
Aean-	<b>6</b> .
2	3.00
ount-N	<b></b>
1 C	0
<u>გ</u>	
RIETY-VARIETY	ннв9
<u>}</u>	
VARIE 2	PH6JN
	rusk ugnuress (scored 1 to 9; 1≖loose, 9≕tght)PH6JM∻_PHHB9
TRAIT	iusk tigniness scored 1 to 9; ≈loose, 9≕tigh
	(900 H

### **DEFINITIONS**

In the description and examples, a number of terms are used herein. In order to provide a clear and consistent understanding of the specification and claims, including the scope to be given such terms, the following definitions are provided:

ANT ROT = ANTHRACNOSE STALK ROT (Colletotrichum graminicola).

A 1 to 9 visual rating indicating the resistance to Anthracnose Stalk Rot. A higher score indicates a higher resistance.

BAR PLT = BARREN PLANTS.

The percent of plants per plot that were not barren (lack ears).

BRT STK = BRITTLE STALKS.

This is a measure of the stalk breakage near the time of pollination, and is an indication of whether a hybrid or inbred would snap or break near the time of flowering under severe winds. Data are presented as percentage of plants that did not snap.

BU ACR = YIELD (BUSHELS/ACRE).

Yield of the grain at harvest in bushels per acre adjusted to 15.5%

CLD TST = COLD TEST.

The percent of plants that germinate under cold test conditions.

CLN = CORN LETHAL NECROSIS.

Synergistic interaction of maize chlorotic mottle virus (MCMV) in combination with either maize dwarf mosaic virus (MDMV-A or MDMV-B) or wheat streak

mosaic virus (WSMV). A 1 to 9 visual rating indicating the resistance to Corn Lethal Necrosis. A higher score indicates a higher resistance.

COM RST = COMMON RUST (Puccinia sorghi).

A 1 to 9 visual rating indicating the resistance to Common Rust. A higher score indicates a higher resistance.

DIP ERS = DIPLODIA EAR MOLD SCORES (Diplodia maydis and Diplodia macrospora).

A 1 to 9 visual rating indicating the resistance to Diplodia Ear Mold. A higher score indicates a higher resistance.

DRP EAR = DROPPED EARS.

A measure of the number of dropped ears per plot and represents the percentage of plants that did not drop ears prior to harvest.

EARHT = EARHEIGHT.

The ear height is a measure from the ground to the highest placed developed ear node attachment and is measured in cm.

EAR MLD = GENERAL EAR MOLD.

Visual rating (1-9 score) where a "1" is very susceptible and a "9" is very resistant. This is based on overall rating for ear mold of mature ears without determining the specific mold organism, and may not be predictive for a specific ear mold.

EAR SZ = EAR SIZE.

A 1 to 9 visual rating of ear size. The higher the rating the larger the ear size.

ECB 1LF = EUROPEAN CORN BORER FIRST GENERATION LEAF FEEDING

(Ostrinia nubilalis).

A 1 to 9 visual rating indicating the resistance to preflowering leaf feeding by first generation European Corn Borer. A higher score indicates a higher resistance.

ECB 2IT = EUROPEAN CORN BORER SECOND GENERATION INCHES OF TUNNELING (Ostrinia nubilalis).

Average inches of tunneling per plant in the stalk.

ECB 2SC = EUROPEAN CORN BORER SECOND GENERATION (Ostrinia nubilalis).

A 1 to 9 visual rating indicating post flowering degree of stalk breakage and other evidence of feeding by European Corn Borer, Second Generation. A higher score indicates a higher resistance.

ECB DPE = EUROPEAN CORN BORER DROPPED EARS (Ostrinia nubilalis).

Dropped ears due to European Corn Borer. Percentage of plants that did not drop ears under second generation corn borer infestation.

EGRWTH = EARLY GROWTH

WTH = EARLY GROWTH.

This is the visual rating (1 to 9) of the amount of vegetative growth after emergence at the seedling stage (approximately five leaves). A higher score indicates better vigor or early season growth.

EST CNT = EARLY STAND COUNT.

This is a measure of the stand establishment in the spring and represents the number of plants that emerge on per plot basis for the inbred or hybrid.

EYE SPT = EYE SPOT (Kabatiella zeae or Aureobasidium zeae).

A 1 to 9 visual rating indicating the resistance to Eye Spot. A higher score indicates a higher resistance.

FUS ERS = FUSARIUM EAR ROT SCORE. (Fusarium moniliforme or Fusarium subglutinans).

A 1 to 9 visual rating indicating the resistance to Fusarium ear rot. A higher score indicates a higher resistance.

GDU = GROWING DEGREE INITS

GDU = GROWING DEGREE UNITS.

Using the Barger Heat Unit Theory, which assumes that maize growth occurs in the temperature range 50°F - 86°F and that temperatures outside this range slow down growth; the maximum daily heat unit accumulation is 36 and the minimum daily heat unit accumulation is 0. The seasonal accumulation of GDU is a major factor in determining maturity zones.

GDU SHD = GDU TO SHED.

GDU TO SHED.

The number of growing degree units (GDUs) or heat units required for an inbred line or hybrid to have approximately 50 percent of the plants shedding pollen and is measured from the time of planting. Growing degree units are calculated by the Barger Method, where the heat units for a 24-hour period are:

 $GDU = (\underline{Max. Temp. + Min. temp.}) - 50/2$  The highest maximum temperature used is 86° F. and the lowest minimum temperature used is 50°F. For each inbred or hybrid it takes a certain number of GDUs to reach various stages of plant development.

GDU SLK = GDU TO SILK.

The number of growing degree units required for an inbred line or hybrid to have approximately 50 percent of the plants with silk emergence from time of planting. Growing degree units are calculated by the Barger Method as given in GDU SHD definition.

GIBERS = GIBBERELLA EAR ROT (PINK MOLD) (Gibberella zeae).

A 1 to 9 visual rating indicating the resistance to Gibberella Ear Rot. A higher score indicates a higher resistance.

GLF SPT = GRAY LEAF SPOT (Cercospora zeae-maydis).

A 1 to 9 visual rating indicating the resistance to Gray Leaf Spot. A higher score indicates a higher resistance.

GOS WLT = GOSS' WILT (Corynebacterium nebraskense).

A 1 to 9 visual rating indicating the resistance to Goss' Wilt. A higher score indicates a higher resistance.

GRN APP = GRAIN APPEARANCE.

This is a 1 to 9 rating for the general appearance of the shelled grain as it is harvested based on such factors as the color of harvested grain, any mold on the grain, and any cracked grain. High scores indicate good grain quality.

HC BLT = HELMINTHOSPORIUM CARBONUM LEAF BLIGHT (Helminthosporium carbonum).

A 1 to 9 visual rating indicating the resistance to Helminthosporium infection. A higher score indicates a higher resistance.

HD SMT = HEAD SMUT (Sphacelotheca reiliana).

This score indicates the percentage of plants not infected.

KER KG = KERNELS PER KILOGRAM.

The number of kernels per 1 kilogram of seed after discard is removed.

KSZ DCD = KERNEL SIZE DISCARD.

The percent of discard seed; calculated as the sum of discarded tip kernels and extra large kernels.

MDM CPX = MAIZE DWARF MOSAIC COMPLEX (MDMV = Maize Dwarf Mosaic Virus and MCDV = Maize Chlorotic Dwarf Virus).

A 1 to 9 visual rating indicating the resistance to Maize Dwarf Mosaic Complex. A higher score indicates a higher resistance.

MST = HARVEST MOISTURE.

The moisture is the actual percentage moisture of the grain at harvest.

NLF BLT = NORTHERN LEAF BLIGHT (Helminthosporium turcicum or Exserohilum turcicum).

A 1 to 9 visual rating indicating the resistance to Northern Leaf Blight. A higher score indicates a higher resistance.

PLT HT = PLANT HEIGHT.

This is a measure of the height of the plant from the ground to the tip of the tassel in cm.

**POL SC** = **POLLEN SCORE.** 

A 1 to 9 visual rating indicating the amount of pollen shed. The higher the score the more pollen shed.

POL WT = POLLEN WEIGHT.

This is calculated by dry weight of tassels collected as shedding commences minus dry weight from similar tassels harvested after shedding is complete.

PRM = PREDICTED RELATIVE MATURITY.

This trait, predicted relative maturity, is based on the harvest moisture of the grain. The relative maturity rating is based on a known set of checks and utilizes standard linear regression analyses and is also referred to as the Comparative Relative Maturity Rating System that is similar to the Minnesota Relative Maturity Rating System.

PRM SHD = PREDICTED RELATIVE MATURITY GDU TO SHED.

A relative measure of the growing degree units (GDU) required to reach 50% pollen shed. Relative values are predicted values from the linear regression of observed GDU's on relative maturity of commercial checks.

RT LDG = ROOT LODGING.

Root lodging is the percentage of plants that do not root lodge; plants that lean from the vertical axis at an approximately 30° angle or greater would be counted as root lodged.

SCT GRN = SCATTER GRAIN.

A 1 to 9 visual rating indicating the amount of scatter grain (lack of pollination or kernel abortion) on the ear. The higher the score the less scatter grain.

SEL IND = SELECTION INDEX.

The selection index gives a single measure of the hybrid's worth based on information for up to five traits. A maize breeder may utilize his or her own set of traits for the selection index. One of the traits that is almost always included is yield. When selection index data is presented, the tables represent the mean value averaged across testing stations.

SLF BLT = SOUTHERN LEAF BLIGHT (Helminthosporium maydis or Bipolaris maydis).

A 1 to 9 visual rating indicating the resistance to Southern Leaf Blight. A higher score indicates a higher resistance.

SOU RST = SOUTHERN RUST (Puccinia polysora).

A 1 to 9 visual rating indicating the resistance to Southern Rust. A higher score indicates a higher resistance.

STAGRN = STAYGREEN.

Staygreen is the measure of plant health near the time of black layer formation (physiological maturity). A high score indicates better late-season plant health.

STK CNT = NUMBER OF PLANTS.

This is the final stand or number of plants per plot.

STK LDG. = STALK LODGING.

This is the percentage of plants that did not stalk lodge (stalk breakage) as measured by either natural lodging or pushing the stalks and determining the percentage of plants that break below the ear.

STW WLT = STEWART'S WILT (Erwinia stewartii).

A 1 to 9 visual rating indicating the resistance to Stewart's Wilt. A higher score indicates a higher resistance.

TASBRN = TASSEL BRANCHES.

This is the number of primary tassel branches.

TAS SZ = TASSEL SIZE.

A 1 to 9 visual rating was used to indicate the relative size of the tassel. The higher the rating the larger the tassel.

TAS WT = TASSEL WEIGHT.

This is the average weight of a tassel (grams) just prior to pollen shed.

TEX EAR = EAR TEXTURE.

A 1 to 9 visual rating was used to indicate the relative hardness (smoothness of crown) of mature grain. A 1 would be very soft (extreme dent) while a 9 would be very hard (flinty or very smooth crown).

TILLERS.

A count of the number of tillers per plot that could possibly shed pollen was taken. Data are given as a percentage of tillers: number of tillers per plot divided by number of plants per plot.

TST WT = TEST WEIGHT (UNADJUSTED).

The measure of the weight of the grain in pounds for a given volume (bushel).

YLD SC = YIELD SCORE.

A 1 to 9 visual rating was used to give a relative rating for yield based on plot ear piles. The higher the rating the greater visual yield appearance.

### United States Department of Agriculture, Agricultural Marketing Service Science Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville, MD 20705

### Objective Description of Variety Com (Zea mays L.)

Name of Applicant (s)		Variety Seed Source	Variet	y Name or Temporary Designation
Pioneer Hi-Bred In	iternational, Inc.			РН6ЛМ
Address (Street & No., or	RFD No., City, State, Zip Cod	and Country	FOR OFFICIAL USE	500000000
7301 NW 62 <sup>nd</sup> Aver	ıue, P.O. Box 85,		DITTON	·
Johnston, Iowa 50	131-0085		PVP0 Number	·
Hace the appropriate num	iber that describes the varietal o	haracters typical of this inbred varie	ety in the spaces below.	Right justify whole numbers by adding
Leading zeroes if necessa	ary. Completeness should be st	riven for to establish an adequate va	riety description. Traits	designated by an '*' are considered
Necessary for an adequat	e variety description and must	be completed.		
COLOR CHOICES (Use		or code to describe all color choice		
01=Light Green	06=Pale Yellow	1 l=Pink	16=Pale Purple	21=Buff
2=Mcdium Green	07=Yellow	12=Light Red	17=Purple	22=Tan
3=Dark Green	08=Yellow Orange	13=Cherry Red	18=Colorless	23=Brown
H=Very Dark Green	09=Salmon	14=Red	19=White	24=Bronze
S=Green-Yellow	10=Pink-Orange	15=Red & White	20=White Capped	25=Variegated (Describe)
				26=Other (Describe)
TANDARD INBRED C	HOICES			
Use the most similar (in	background and maturity) of th	ese to make comparisons based on g	row-out trial data):	
Cellow Dent Families:	-	Yellow Dent (Unrelated):	Sweet Co	orn:
amily Members		Co109, ND246,	C13, Io	wa5125, P39, 2132
14 CM105, A63	12, B64, B68	Oh7, T232,	•	
B37, B76, H	B37, B76, H84		Popcorn:	
N192, A679,	, B73, NC268	W18BN	SG1533	3, 4722, HP301, HP7211
C103 Mo17, Val0	2, Va35, A682			
Db43 A619, MS71	, H99, Va26	White Dent:	Pipecom	:
	4, A654, Pa91	C166, H105, Ky228	Mo15W	/, Mo16W, Mo24W

(HIBIT C:	scribe intermedia	ate types in Comme	nts section):				Standan	1 Variety	Name
		3=Flint 4=Flour 5=I		al			<u>B</u> :	<u>73</u>	
	WATERE DEVEL	OPED IN THE U.S.	A ·				Standar	d Seed S	ource
	Where Devel	rthcentral 3=Northe	ast 4=Southeast	5=Southce	entral			1 550473	
<u>5</u> 1≕1 6=9	Couthwest 7=Oth	ner <u>Central Com B</u>	Belt, NE W U.S.					1 330413	
	TV (In Region of	Best Adaptability; s	how Heat Unit for	nula in 'Co	mments' se	ction)			
	HEAT UNITS	Door, and and any					DAYS H	EAT UNI	TS
076 1		emergence to 50% of	of plants in silk				<u>077</u>	<u>1,463.0</u>	
078 1		emergence to 50% (					<u>077</u>	<u>1.478.7</u>	
003 0		10% to 90% pollen s					003	0.066.7	
<u> </u>		50% silk to optimum							
	From	50% silk to harvest	at 25% moisture			_			
4. PLANT:					Standard	Sample		Standard	Sample
4, PLANT:					Deviation	Size		Deviation	Size
226.0	cm Plant Height	(to tassel tip)			04.00	<u>03</u>	245.7	<u>06.11</u>	<u>03</u>
230.0	om Ear Height (t	o base of top ear no	ode)		02.31	<u>03</u>	104.7	<u>05.51</u>	<u>03</u>
014.2	cm Length of To	n Far internode	,		01.22	<u>03</u>	016.0	<u>00.40</u>	<u>03</u>
014.4	Average Numbe	r of Tillers			00.00	<u>03</u>	0.0	00.00	<u>03</u>
1.0	Average Numbe	r of Ears per Stalk			00.05	<u>03</u>	0.9	<u>00.05</u>	<u>03</u>
3	Anthocyanin of	Brace Roots: 1=Abs	sent 2=Faint 3=N	foderate 4	=Dark 5=Ve	ery Dark	4		
					Standard	Sample	,	Standard	Sample
5. LEAF:					Deviation	Size	1	Deviation	Size
40.1	cm Width of Ear	Node Leaf			00.12	<u>03</u>	09.3	<u>00.46</u>	<u>03</u>
	cm Length of Ea				01.44	<u>03</u>	<u>86.8</u>	<u>01.11</u>	<u>03</u>
		es above top ear			00.61	<u>03</u>	<u>06</u>	<u>00.53</u>	<u>03</u>
<u>16</u>	Degrees Leaf Ar at anthesis to st	ngle (measure from	2nd leaf above ea	ar .	<u>02,52</u>	<u>03</u>	12	<u>01.44</u>	<u>03</u>
••			50	3Y34			03	<u>5G</u>	<u>Y34</u>
<u>03</u>	Leaf Color (Muni	seil code) bescence (Rate on s			each fuzz)		2		•
1	Lear Sneath Put	(Rate on scale from	a 1=none to 9=ma	nv)	,		1		
	Longitudinal Cre	eases (Rate on scale	from 1=none to 9	emany)					
					Standard	Sample		Standard	Sample
6. TASSE	Ŀ				Deviation	Size	1	Deviation	
04	Number of Prim	ary Lateral Branche	S		01.33	03	98	01.70	<u>03</u>
		om Central Spike	-		02.36	<u>03</u>	23		
<del>50</del> 1	cm Tassail ann	ith (from top leaf col	lar to tassel tip)		00.90	<u>03</u>	<u>50.9</u>	<u>01.53</u>	<u>03</u>
<u>33.1</u>	Pollen Shed ins	te on scale from 0=	male sterile to 9=h	eavy shed			7		
	Anther Color (N		7.5R66	-			07		<u> 78.54</u>
	Glume Color (N		7.5RP36				<u>  01</u>	<u> 50</u>	<u>GY56</u>
1	Bar Glumes (G	lume Bands): 1=Ab:		•			1	L	٠
					<del></del> -		Canad	ard Variet	ly Data
Application	on Variety Data	-	Page	9 1					, vale
		_						4.5	

pplication	Variety Data PH6JM	Page 2			Standa	ırd Variet	/ Data
7a. EAR	(Unhusked Data):						
11	Silk Color (3 days after emergence) (Munsel	I code)		10RP68	01 2.5GY94		
<u>03</u>	Fresh Husk Color (25 days after 50% silking)	(Munsell code)		5GY56	01 5GY78		
<u>21</u>	Dry Husk Color (65 days after 50% silking) (N	Munseli code)		5Y92		2.5Y8	.54
<u>3</u>	Position of Ear at Dry Husk Stage: 1= Uprigh	t 2≈ Horizontal :	3= Pendant	<del></del>	_ 3		
4	Husk Tightness (Rate of Scale from 1=very le	oose to 9=very ti	ght)		<u>6</u>		
2	Husk Extension (at harvest): 1=Short (ears e	xposed) 2=Medi	um (<8 cm)		<u>3</u>		
	3=Long (8-10 cm beyond ear tip) 4=Very Lon	ıg (>10 cm)					
7b. EAR	(Husked Ear Data):		Standard	Sample	Sta	ndard	Sampl
•			Deviation	Size	Dev	/iation	Size
<u>15.3</u>	cm Ear Length		00.58	<u>03</u>	13.7	00.58	<u>03</u>
41.3	mm Ear Diameter at mid-point		01.15	<u>03</u>	45.3	00.58	<u>03</u>
114.3	gm Ear Weight		<u>06.03</u>	03	117.0	06.24	<u>03</u>
14	Number of Kernel Rows		<u>01.00</u>	<u>03</u>	18.0	01.00	<u>03</u>
2	Kernel Rows: 1=Indistinct 2=Distinct				2		
2	Row Alignment: 1=Straight 2=Slightly Curved	d 3=Spiral			2		
09.3	cm Shank Length		00.58	<u>03</u>	<u>08.0</u>	00.00	<u>03</u>
2	Ear Taper: 1=Slight 2= Average 3=Extreme				2		
8. KERNE	EL (Dried)	<del></del>	Standard	Sample	Standa	ard	Sample
	•		Deviation	Size	Deviat	tion	Size
<u>11.3</u>	mm Kemei Length		00.58	<u>03</u>	11.0	00.00	<u>03</u>
08.7	mm Kernel Width		00.58	<u>03</u>	<u>07.0</u> 0	00.00	<u>03</u>
04.3	mm Kernel Thickness		<u>00.58</u>	<u>03</u>	<u>04.0</u> 0	00.00	<u>03</u>
<u>56.0</u>	% Round Kernels (Shape Grade)		<u>12.53</u>	<u>03</u>	<u>81.7</u> <u>0</u>	<u>)5.51</u>	<u>03</u>
1	Aleurone Color Pattern: 1-Homozygous 2=Se	gregating			1		
<u>07</u>	Aluerone Color (Munsell code)		1.2	5Y714	<u>07</u>	2.5Y	<u>312</u>
<u>07</u>	Hard Endosperm Color (Munsell code)		1.2	5Y712	<u>07</u>	1.25	314
03	Endosperm Type:			,	3		
	1=Sweet (Su1) 2=Extra Sweet (sh2) 3=N 4=High Amylose Starch 5=Waxy Starch 6 7=High Lysine 8=Super Sweet (se) 9=Hig 10=Other	S=High Protein	,	•			
27.7	gm Weight per 100 Kernels (unsized sample)		02.31	<u>03</u>	<u>20.67</u> (	<u> </u>	<u>03</u>
9. COB:		<del></del>	Standard	Sample	Si	tandard	Sampl
			Deviation	Size	D	eviation	Size
<b>23</b> .3	mm Cob Diameter at mid-point		00.58	<u>03</u>	27.3	00.58	03
14	Cob Color (Munsell code)	10R48			14	10F	366
					•	. 5"	

Application Variety Data

Page 2

Standard Variety Data

**РН6**ЈМ

	RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); if not tested; leave Race or Strain Options blank if polygenic):	
A. Lear E	Blights, Wilts, and Local Infection Diseases	
	Anthracnose Leaf Blight (Colletotrichum graminicola)	
<u>5</u>	Common Rust (Puccinia sorghi)	4
	Common Smut (Ustilago maydis)	
	Eyespot (Kabatlella zeae)	
	Goss's Wilt (Clavibacter michiganense spp. nebraskense)	
<u>6</u>	Gray Leaf Spot (Cercospora zeae-maydis)	<u>3</u>
	Helminthosporium Leaf Spot (Bipolaris zeicola) Race	
4	Northern Leaf Blight (Exserohilum turcicum) Race ———	<u>2</u>
Z	Southern Leaf Blight (Bipolaris maydis) Race	<u>3</u>
	Southern Rust (Puccinia polysora)	
<u>5</u>	Stewart's Wilt (Erwinia stewartii)	<u>3</u>
_	Other (Specify) ———	
B. System	mic Diseases	
	Corn Lethal Necrosis (MCMV and MDMV)	
<u>8</u>	Head Smut (Sphacelotheca reiliana)	9
	Maize Chlorotic Dwarf Virus (MDV)	
	Maize Chlorotic Mottle Virus (MCMV)	
<u>2</u>	Maize Dwarf Mosaic Virus (MDMV)	<u>3</u>
	Sorghum Downy Mildew of Corn (Peronosclerospora sorghi)	
	Other (Specify)	
C. Stalk	Rots	
3	Anthracnose Stalk Rot (Colletotrichum graminicola)	2
	Diplodia Stalk Rot (Stenocarpella maydis)	
	Fusarium Stalk Rot (Fusarium moniliforme)	
	Gibberella Stalk Rot (Gibberella zeae)	
	Other (Specify)	
D. Ear a	nd Kernel Rots	
	Aspergillus Ear and Kernel Rot (Aspergillus flavus)	
6	Diplodia Ear Rot (Stenocarpella maydis)	4
<u>\$</u> .	Fusarium Ear and Kernel Rot (Fusarium moniliforme)	8
₽.	Gibberella Ear Rot (Gibberella zeae)	
	Other (Specify) ——	· ·
	Onici (Opediy) ——	

Application Variety Data

Page 3

Standard Variety Data

PH6JM

Standard Variety Data

C	anks grass Mite (Oligo om Worm (Helicoverp Leaf Feeding Silk Feeding mg larval wt. ar Damage	• • •			
CC CC 5 5 5 MM NA SA SA	2nd Generation (Typi Stalk Tunneling cm tunneled/plant all Armyworm (Spodo) Leaf Feeding Silk Feeding mg larvat wt. aize Weevil (Sitophilu orthem Rootworm (Di buthem Rootworm (Di buthwestern Corn Bor Leaf Feeding Stalk Tunneling cm tunneled/plant wo-spotted Spider Mit	ophilus dimidiatus Ostrinia nubilalis) cally Whori Leaf Feeding) cally Leaf Sheath-Collar Fee ptera fruqiperda) us zeamaize	ding)	3 4	
	taygreen (at 65 days a			3	
	n a scale from 1=wors Dropped Ears (at 65	•		<u>0.0</u>	
%	Pre-anthesis Brittle S Pre-anthesis Root Lo	odging			•
		lging (at 65 days after anthes ler Se (at 12-13% grain moisi		2.6 5.191.3	
13. MOLECULA	R MARKERS: (0=dat	a unavailable; 1=data availat	e but not sup	plied; 2=data supp	olied):
į	_ Isozymes	Q RFLP's	<u>Q</u>	RAPD's	
	e how heat units were continue in Exhibit D):	e calculated, standard inbred	seed source,	and/or where	169

200100282

### CLARIFICATION OF DATA IN EXHIBITS B AND C

Please note the data presented in Exhibit C, "Objective Description of Variety," are collected primarily at Johnston and Ankeny, Iowa. The data in Exhibit B are from comparisons of inbreds grown in the same tests in the adapted growing area of PH6JM and in Johnston and Ankeny, IA. The data in Tables 1A and 1B are from paired comparison t-tests collected in Johnston and Ankeny, IA. These traits collectively show distinct differences between the two varieties.

There were 3 different planting dates planted each year for these trials. There are environmental factors that differ from year to year and planting date to planting date. Environmental temperature and precipitation differences during the vegetative and grain fill periods can impact plant and grain traits, and are a source of variability. The environmental conditions described above could result in larger standard deviations. The variation associated with year to year and environment to environment is normally higher than the variation associated within locations. I have enclosed a table that shows some of the temperature and precipitation differences between the years 1999 and 2000.

Exhibit D. Temperature and Precipitation differences from Ankeny, IA

### TEMPERATURE

A Section

YEAR	MAY	JUN	JULY	AUG	AVERAGE
1994	59.8	70.7	71.9	<b>69</b> .0	67.9
1995	56.2	69.4	74.3	<b>76</b> .9	69.2
1996	56.2	69.3	71.3	<b>70</b> .5	66.8
1997	53.5	70.6	74.1	<b>6</b> 9.6	67.0
- 1998	64.7	66.6	74.8	73.5	69.9
1999	60.7	69.7	78.7	70.5	69.9
2000	63.5	68.9	73.2	<b>7</b> 4.2	70.0

### RAINFALL

kajo tarija in	YEAR	MAY	JUN	JULY	AUG	Total
	1994	3.67	5.75	1.71	4.18	15.31
	1995	5.04	4.19	2.94	2.87	15.04
	1996	8.47	4.35	2.51	2.14	17.47
	1997	4.32	3.27	4.10	1.36	13.05
	1998	6.46	11.07	5.70	4.96	28.19
	1999	6.46	4.54	4.45	6.55	21.85
 	2000	5.40	5.80	3.16	1.78	16.14

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EXHIBIT E  STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).						
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION     OR EXPERIMENTAL NUMBER	3. VARIETY NAME					
PIONEER HI-BRED INTERNATIONAL, INC.	ON DO ENIMENTAL NOMBER	РН6ЈМ					
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)					
7301 NW 62 <sup>nd</sup> AVENUE	515-270-4051	515-253-2125					
P.O.BOX 85 JOHNSTON, IA 50131-0085	7. PVPO NUMBER	:					
30HN310N, 1A 30131 0003	, .						
Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain:							
· · · · · · · · · · · · · · · · · · ·							
to the applicant (individual or company) a U.S. national or U.S. based company?							
If no, give name of country							
Is the applicant the original owner?   YES  NO If no, please answer one of the following:							
If original rights to variety were owned by individual(s), is(are) the original owner(s) a U.S. national(s)?							
YES NO if no, give name of country							
b. If original rights to variety were owned by a company(les), is(are) the original owner(s) a U.S. based company?							
22 YES ☐ NO If no, give name of country							
Additional explanation on ownership (if needed, use reverse for extra space):							
PHS.M is owned by Pioneer Hi-Bred International, Inc.							
ASE NOTE:  Wastery protection can be afforded only to owners (not licensees) who meet one of the following criteria:							
What rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which accounts protection to nationals of the U.S. for the same genus and species.							
If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member							
** ** *** *** *** *** *** *** *** ***							
realectowner may be the individual or company who directed final breeding. See section 41(a)(2) of the Plant Variety Protection Act for definition.							
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